Environmental Quality Incentives Program Upper South Platte River Watershed Non-Point Source Reduction - Water Quantity/Quality Ranking Criteria FY-2003

1A. System Efficiency

Irrigation Water – Improvement in efficiency for the irrigation system on the offered acres. Points are to be calculated by using the formula [(% of acreage offered) times (% efficiency CHANGE on those acres) times 100] then adding all values. See the example for guidance.

SYSTEM TYPE	PSI REQ	SYS EFF
Impact nozzling overhead/end gun	60+	68%
180 degree spray overhead	30	65%
360 degree LDN truss level	20-30	80%
Rotator wobbler type	30-45	80%
1 ft. below trusses	30-45	80%
Extended drops LDN or LEPA	15-25	90%
Flood (border, contour ditch, corrugat	ions, furrow)	50%
Gated Pipe		55%
Surge Valve		60%
Drip Irrigation		95%

EXAMPLE - A producer has 100 acres of irrigated ground to be offered, 50 acres in Field-A and 50 acres in Field B. The producer will convert Field-A from flood to surge. This will result in a 10% change in system efficiency. The producer will convert Field-B from a surge valve system to a drip system. This will result in a 35% change in system efficiency. The points for this would be computed as:

Field-A - 0.50 X 0.10 X 100 = 5 Field-B - 0.50 X 0.35 X 100 = 17.5 Total Points = 5 + 17.5 = 22.5

Maximum 30 pts. % improvement x 100 = pts.

1B. NEW DITCH LINING OR PIPELINE (water delivered to the field) (based on predominant soil type)

Sandy, Loamy sand, Sandy loam	30 pts.
Loam, Silty loam	25 pts.
Sandy clay loam, clay loam, silt	20 pts.
Silty clay, Silty clay loam	15 pts.
Sandy clay	10 pts.
Clay	5 pts.

Maximum 30 pts. _____pts.

(NOTE: POINTS MAY BE TAKEN FOR EITHER 1A OR 1B- NOT BOTH)

2. Irrigation Water Management

Must include at least one of the following: (Each practice is worth 5 points.)

- a.) Well testing
- b.) Use of Gypsum Blocks, ET, or Other Recommended Scheduling Tools
- c.) Record Keeping
- d.) System Measuring Device- weir or flume

Maximum 10 pts. pts

3.	Contracted irrigated acreage of new Ridge Till, No-Till, Mulch Till or Strip-Till Must meet 329A, 329B or 329C criteria to manage moisture. 10 ptsptsptspts.								
4.	Alley crop		i ge of <u>new</u> conse ler strips, Field bor rs		p, Gr		quality 10 pts.	pts.	
5.	6. Contracted acres of New Nutrient Management Must meet practice standard 590 Maximum 10 pts. 10 ptspts.								
6.	Consumptive Use of Crops Grown								
	CROP			<u>POINTS</u>					
	Corn Grai Sorghum Beans, dr	Grass/Sugar Beets/ n Grain & Corn Sila y & Small Vegetab other Small Grains	ge bles	1 2 3 4 5					
Points	Points will be given for the next 3 years of crops to be grown.								
YEAR		2004	2005	2006		TOTAL POINTS			
CROP	CROP								
POINTS									
					(Ma	aximum points	18)		
will be For 20	in Corn Sil 04, [(0.10)	lage. In 2005, 100 X 3) + (0.90 X 4) = otal of 14.9 pts.	elds. In 2004, 10 a acres will be in Be 3.9 pts. For 2005	ans. In 2006	i, 100	acres will be in			
YEAR	(=) (1 (1))	2004	2005	2006		TOTAL POINTS			
CROP		Corn	Beans	Wheat		FOINTS			
POINT	S	(3.9)	(5)	(6)		(14.9)			
Total	Water (Quantity/ Qua reaking Criteria v	lity Ranking F	Points _ points scor	ed in	Item 4 and the	en in Item	1.	
Conse	rvationist _			Date					
Applica	ant			Date					

Environmental Quality Incentives Program Upper South Platte River Watershed Reduction In Soil Erosion Ranking Criteria FY-2003

Note: Points can only be awarded if practices will be implemented to address the concern.

•		anent vegetative	cover - The percent of the crop	land acreage	in the offered tra	ct(s) to be converted
	0: (A) ad	lanted native (55)	0) perennial species			
		< 1%	b) perennial species	0 pts.		
		1-15%		15 pts.		
		15-30%		30 pts.		
		30-60%		45 pts.		
		> 60%		40 pts.		
	О.	7 00 70		Points		
	IB) ad	lanted introduce	d (512) perennial species:			
		< 1%	a (012) pererman operior.	0 pts.		
		1-15%		5 pts.		
		15-30%		9 pts.		
		30-60%		15 pts.		
		> 60%	20	•		
	٠.					
			Maximum 60 points (1A + 1B) Po	ints	
				12,10		•
Note			given for Permanent Vegetativ) on the same acreage.	e Cover (1A	& 1B)	
2) 6			in the tillage system results in c	rone being no	tilled/ minimum	tilled in the rotation:
		ery no-till perennia		14 pts		illed iii tile rotation.
			sed for hay (part of rotation)	13 pts		
			annual broadleaf crop	12 pts		
			annual grass crop	12 pts	10 pts.	
			nnual broadleaf crop	8 pts.	•	
		ery no-till winter a		6 pts.		
			e perennial broadleaf crop	ο ρισ.	12 pts.	
			e grass used for hay (part of rot	ation\11 atc	12 μιδ.	
			e summer annual broadleaf cro		10 pts.	
			le summer annual grass crop	P	8 pts.	
			e winter annual broadleaf crop	6 pts.	•	
			e winter annual grass crop	ο μιδ.		
1. 1	OI EVE	ary miniminum tinag	e willter allitual grass crop		4 pts.	
Evar	nples					
	•		crops: sunflower, drybeans, soyb	neane sugar	heets	
			s: corn, millet, sorghum	Jeans, Sugar	Deels	
		nual broadleaf cro				
		nual grass crops:	•			
		broadleaf crop: a				
		-	ass, meadow brome			
ı Cıc	illiai	grass. Ordinarugra	Maximum 38	nte Point	S	
			Maximum 30	ots. Follit	<u> </u>	
			ct farmstead/ livestock or field 380 (Maximum 12 pts)			
		•	ow high density 8 pts.			
		ıltiple row	12 pts.			
		•	Maximum 12 i	nts	Points	

 Soil Erodibility. Determine the predomit complexes). Use the data from the soil to 				
following factors:	ables (distributed Dec	ember 6, 200	2 IOI Each Soil Su	ivey) for the
	.Grp=RV=	I= T=	K.=	
A. Hydrologic Grouping (Runoff Potential)	of the soil is:	_''		
a. Low (A)	4 pts.			
b. Moderately low (B)	8 pts.			
c. Moderately high (C)	12 pts.			
d. High (D)	15 pts			
5 ()	·	Points		
B. Representative Slope (RV) is:				
a. 0 - 2%	4 pts.			
b. 2 - 4%	8 pts.			
c. 4 - 6%	12 pts.			
d. > 6%	15 pts			
		Points		
Note: Points may only be taken for C1 (v				
or C2 (water erodibility)—no				
C1. Wind Erosion Factors I divided				
[Example I = 48, T = 5 (48/5= 9.6 a. < 12	/ -			
b. 13 – 18	15 pts 30 pts			
c. 18 – 30	45 pts			
d. > 30	60 pts			
d. 7 00	ου ρισ	Points		
C2. Water Erodibility factor K _f (fro	om surface laver)	1 011110		
a. 0.17 or less	15 pts.			
b. 0.20 – 0.28	30 pts.			
c. 0.32 – 0.37	45 pts.			
d. 0.43 – 0.64	60 pts.			
	·	Points		
5. Reduced gully and ephemeral gully ero		f land in the of	ffered land unit is	adversely
affected by ephemeral gully and/or gully eros				
A. High = > 50% of land area affected				
B. Medium = 25 – 50% of land area affected				
C. Low = < 25% of land area affected	10 pts.			
D. None = none of land area affected	0 pts.	Daimta		
		Points		
6. New conservation buffers for soil erosi	on protection 12 pts			
Must meet practice code 332, 386, 393,				
	Maximum 12 pts.	Points		
	maximum 12 pts.	1 011113		
	Total Soil	Erosion Poi	nts:	
Conservationist	Date:			
	Date.			
Applicant	Date:			

Ranking Criteria FY-03 EQIP Upper South Platte River Watershed Grazing Land/Grassland

1.) Targeting of grassland resource concerns:

Mark (X) on each of the grassland resource concerns present that will be **directly addressed as a result of the land treatment practices planned**. **No points will be awarded unless a planned practice is written into the contract that will directly address the resource concern.** Written justification and designation of the affected area(s) on a photo or map are required.

	Concern is present	List Planned practice	DESCRIPTION OF TARGETED RESOURCE CONCERNS
a.			Wind-scour, blowouts and/or deposition areas greater than 3 percent of offered acres
b.			Gullies caused by concentrated flow or livestock trailing that are actively eroding
C.			Degraded vegetative cover that has low production potential and low feed quality for livestock and/or wildlife
d.			Excessive overland runoff of precipitation due to type or condition of vegetative cover
e.			Noxious weed infestations greater than 3 percent of offered acres
f.			Water distribution limits the utilization of a pasture at the present time

(10 pts) for each resource concern that will be directly addressed as a result of the land treatment practices planned.

	1.)	Targeted	resource	concern	points:	
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2.)	Select one	grazing	management	system	or strategy:
,		33			

Applicant ______ Date_____

a.	Prescribed grazing system where a rotational grazing system meeting NRCS FOTG criteria will be newly implemented to address documented grassland resource concerns	(55 pts)				
b.	Prescribed grazing system where a rotational grazing system meeting NRCS FOTG criteria is currently used, but additional improvements to the system will be implemented to address documented grassland resource concerns	(40 pts)				
C.	Season-long grazing strategy is utilized, but new practices will improve grazing distribution and address documented grassland resource concerns	(25 pts)				
d.	Season-long grazing strategy where existing practices need to be replaced at their current location to maintain use of the grazing land	(10 pts)				
	2.) Grazing management incentive points:					
	Total Grassland Ranking point	:s:				
	TIE BREAKING CRITERIA WILL BE THE HIGHEST POINTS SCO	RED IN ITEM 2.				
Conserv	vationist Date	_				

Clarification and guidelines on 1.) Targeting of grassland resource concerns

- a. Identify location of wind-scour, blowout and/or depositional area(s) on aerial photo. Multiple areas can be combined to meet the minimum size criteria as long as they are in the same grazing unit receiving land treatment.
- b. Identify location of gully erosion on aerial photo. Affected areas need to be significant problems with a high potential for continued degradation. Example: a gully started by a cow trail that is 100 feet long and 2 feet deep.
- c. Seeding or interseeding would likely be necessary to improve the quantity and quality of vegetation. Grazing management alone would not bring about the desired vegetation.
- d. Vegetation is short due to species composition or grazing management. Runoff rate is rapid and infiltration is limited due to low stature and density of vegetation. Drought conditions exist as a result of high runoff and low water infiltration. Applies to heavier textured soils.
- e. Identify location of noxious weed infestation(s) on aerial photo. Multiple areas can be combined to meet the minimum size criteria as long as they are in the same grazing unit receiving land treatment.
- f. Document a grazing unit where no water sources are currently available. This may be a field that was previously enrolled in a reserve program or a cropland field that has been seeded to range or pasture. The grazing unit must be part of a prescribed grazing plan.

Ranking Criteria FY-03 EQIP Upper South Platte River Watershed Non-Point Source Reduction - Livestock Waste

1.) Location of Existing Facility:					
1A. 100 year Flood plain (yes = 10 pts.)			pts.		
1B. Depth to groundwater 100/depth in ft.			pts.		
1C. Distance to Surface Water 1000/distance in ft.			pts.		
2.) Plan Components					
	Adequate	exists	non-existent		
	0.0 pts.	Inadequate 5 pts.	10 pts.		
Collection and Transport					
Storage or Treatment					
Seepage Control					
Transfer and Utilization					
New conservation buffers planned to protect water quality due to degraded surface and groundwater quality from confined animal wastes. Maximum 20 points. 10 points TOTAL LIVESTOCK Waste Pts					
Tie Breaking Criteria will be highest points scored in Item 1, then Item 2, then Item 3.					
Conservationist	Date				
Applicant	Date				

Upper South Platte Watershed EQIP Wildlife Ranking Criteria FY 2003

Projects must have wildlife habitat improvement as the primary intent for use of funds, and fully described habitat management practices in the conservation plan.

	et is located within a wildlife area and ac mountain plover, and riparian areas) fo		
Within a wildlife area Outside wildlife areas		10	
Pick one habitat type on selected in #3. Sagebrush-steppe, ripar or warm Midgrass/sand sage, foo	e(s) are intended to maintain, enhance, ly for a maximum of 15 points. Habitat ian, shortgrass, mountain shrub, water stream othills, cropland, coldwater stream coniferous woodland, other		
	ce(s) for: (You should pick the one high more than one species on this item).	est category or species	if a species fits in more than one
Or WHIP Economica Note: The Republican R	pecies of Republican Watershed- pheas ally Important Species- pheasant iver Watershed chose to address pheas b. In the WHIP ranking, pheasant will be	sant and greater prairie	
species, or a declining Includes: Columbian shar	lesser prairie chicken, long-billed curley	10 poi v, Cassin's sparrow railed prairie dog, er ed species list)	
A state endangered or Includes:	OR a Federal threatened or endangered spelack footed ferret plains sharp-tailed grouse Colorado pikeminnow humpback chub razorback sucker bonytail chub Preble's meadow jumping mouse bald eagle	pecies 7 points	

fish-Colorado River species southwest willow flycatcher

OR Declining native species, or economically important species 5 points grassland birds Includes: northern bobwhite scaled quail bighorn sheep (desert and Rocky Mountain) pronghorn elk mule deer east of Interstate 25 or north of U.S. Highway 50 and East of U.S. Highway 287/385 white-tailed deer trout (stream habitat only) turkey OR Species with stable or increasing populations, or not otherwise listed 2 points This category becomes a limiting factor if habitat for a state or federal threatened or endangered species is destroyed with the project 4) Practices planned address limiting factors for target species. Species specific practices found in Biology Technical Notes # 10-20 are worth 10 points. If the project is applying practices not listed in the Biology Tech Notes, the local Work Group may assign a point value in concurrence with the NRCS Area Biologist or other designated Area representative. Maximum of 10 points. 5) Is the project adjacent to a specific habitat enhancement, maintenance, or restoration effort? (i.e. several adjoining landowners all are installing wildlife habitat practices under wildlife habitat programs. Examples include one of the following: CRP (wildlife planting), PHIP, RMEF, DU, Partners for Wildlife, and other programs as approved by NRCS Area Biologist or Area Representative.) Yes = 10 No = 06) Three points for each partner contributing dollars or in-kind contributions. This includes the Pheasants Forever, Ducks Unlimited, etc. The landowner and NRCS are NOT considered partners. No more than 12 points (4 different partners) maximum for this factor.

7) Proximity to occupied dwelling measured from dwelling to center of area treated.

(Maximum of 77 points possible)

> 1/4 mile

Total points

1/8 - 1/4 mile = 5 < 1/8 mile

= 10

= 0

Mule Deer Wildlife Area

The mule deer wildlife area covers all land west or south of a line running from Interstate 25 at the Wyoming border, south to U.S. Highway 50, east to U.S. Highway 287/385 and south to the New Mexico border.

Mountain Plover Habitat Area

The mountain plover habitat area covers all land in Colorado east of Interstate 25 on sites suited to shortgrass. In addition, Park County grasslands are included in the mountain plover area.

Riparian Habitat Areas

Riparian areas associated with perennial streams in the South Platte Basin if they support 10 or 7 point fish species. See attached list for species and Area/State Biologist for map of specific reaches.

Riparian areas within designated critical habitats (as per USFWS designation) in the Colorado, Rio Grande, and San Juan Basins for both fish and southwest willow flycatcher. Contact Area or State Biologist if unsure of critical habitat locations.

Riparian areas in Preble's meadow jumping mouse range - Larimer, Boulder, Jefferson, El Paso, Elbert, Weld, and Douglas Counties. Call Area/State Biologist if unsure of exact range.

Colorado Fish Species Designations

Republican River Basin

State Threatened or Special Concern Species (10 points)

Brassy minnow

River shiner

Plains orangethroat darter

Stonecat

State Endangered Species (7 points)

Plains minnow

Suckermouth minnow